

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/011155 A1

(51) International Patent Classification⁷: **H04B 7/26**

(21) International Application Number: **PCT/KR2004/001882**

(22) International Filing Date: 26 July 2004 (26.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0051471 25 July 2003 (25.07.2003) KR

(71) Applicant (*for all designated States except US*): UTSTARCOM KOREA LIMITED [KR/KR]; San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyongki-do 467-701 (KR).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): LEE, Jung Hoon

[KR/KR]; Woosung 7-cha Apt. 113-901, 615, Irwon 2-dong, Gangnam-gu, Seoul 135-946 (KR). HEO, Hyun Gu [KR/KR]; Jugong Apt. 108-504, Anheung-dong, Icheon-si, Gyeonggi-do 467-712 (KR).

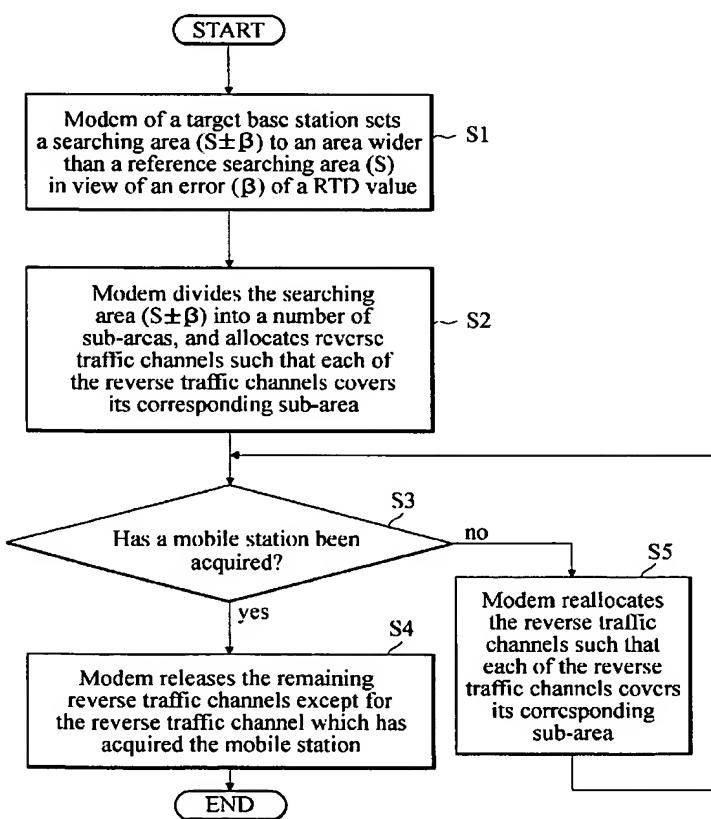
(74) Agent: YOON, Jee Hong; Hannuri Bldg., 219, Naejang-dong, Chongno-gu, Seoul 110-053 (KR).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: METHOD FOR ALLOCATING REVERSE TRAFFIC CHANNELS AT THE TIME OF HANDOFF IN A CDMA COMMUNICATION SYSTEM



(57) Abstract: A method for allocating reverse traffic channels at the time of handoff in a CDMA communication system, comprises the steps of: upon receiving a handoff request from a control station at a target base station, setting a Search Center Offset (SCO) to a Round Trip Delay (RTD) value received from a serving base station, and setting a searching area ($S \pm \beta$) to an area wider than a reference searching area (S) in view of an error (β) in the RTD value; dividing the searching area into a number of sub-areas, and allocating reverse traffic channels such that each reverse traffic channel covers its corresponding sub-area; monitoring the reverse traffic channels to determine whether a mobile station has been acquired; and if the mobile station has been acquired, releasing the remaining reverse traffic channels except for the reverse traffic channel which has acquired the mobile station.

WO 2005/011155 A1



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*